

## ABSTRACT

The purpose of this invention is absolute elimination of medical cross-infection by endoscopy. It offers an endoscope system with a disposal sheath. The disposal sheath via anterior end cap connects the capsule which covers the outside of the endoscope and the disposal channel which sheathe in the endoscope channel and the fluid-air channel, and all these parts are joined together in a whole body. After the disposal channel is passed through the endoscope channel, its posterior disposal channel can be blocked into the elastic sealing cap via the guide tube, the posterior disposal channel's orifice need to be heated and melted and cut up simultaneously and its cut edge is in shape of V-shape by using one kind of heat fusion forceps after the use and before the retracting from the endoscope channel. A fluid-air exit and a sucking channel adapter are set on the posterior endoscope, convenience to connect with the fluid-air channel and the three-way sealing cap, the fluid-air channel may be single cavity channel or double cavity channel or two single cavity channels join in one channel together at nearing jet channel site, the channel sizes may be cylinders, or flat sizes. Both the outer surface of the endoscope and the inner surface of the endoscope channel are protected from pollution by the disposal sheath, thus ensures patients to safely use the permanent endoscope.